CLAIMS LISTING

- (Currently amended) A peptide that selectively binds to colon cancer cells wherein said peptide has the formula: A-X1-X2-X3-X4-X5-X6-X7-X8-X9-B, and wherein the sequence X6-X8 is arg-pro-met.
- 2. (Original) The peptide according to claim 1 wherein said peptide is a cyclic peptide.
- 3. (Original) The peptide according to claim 2 wherein said peptide comprises at least two cysteine amino acid residues, and wherein said peptide is cyclized via a disulfide bond between said two cysteine amino acid residues.
- (Currently amended) The peptide according to claim 1, wherein said peptide has the formula:

A-X1-X2-X3-X4-X5-X6-X7-X8-X9-B-

wherein X1-X9 each are an amino acid, wherein A and B are absent or are amino acids or peptides containing up to 6 amino acids, and wherein amino acids X2, X3, X4, and X5 may be the same or different and each optionally may be absent.

- 5. (Original) The peptide according to claim 4, wherein X1 and X9 are cys, and the peptide contains a disulfide bond between the side chains of X1 and X9.
- (Currently amended) The peptide according to claim 5 wherein:
 - X2 is selected from the group consisting of pro, ala, val, asp, gln, phe, glu, ser, and ile;
 - X3 is selected from the group consisting of ile, leu, glu, met, pro, and his;
 - X4 is selected from the group consisting of glu, asp, his, arg, pro, ala, lys, gln, met, trp, and ser;
 - X5 is selected from the group consisting of asp, arg, ala, leu, glu, ser, phe, gln, met, and valş
 - X6 is selected from the group consisting of arg, his, gln, phe, ser, and pro;
 - X7 is selected from the group consisting of pro, tyr, arg, and trp; and
 - X8 is selected from the group consisting of met, ser, leu, and arg.

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- (Canceled).
- 8. (Original) The peptide according to claim 7, wherein X2 is pro; X3 is selected from the group consisting of ile and leu; X4 is selected from the group consisting of glu, asp, and arg; and X5 is selected from the group consisting of asp and glu.
- (Canceled).
- (Currently amended) A composition comprising at least two peptides according to elaim
 any of claims 1-6 and 8.
- (Previously presented) A cyclic peptide comprising the sequence cys-pro-ile-glu-asp-argpro-met-cys_(SEQ ID NO: 1), wherein said peptide comprises a disulfide bond between the cys side chains.
- (Original) A pharmaceutical preparation comprising a peptide or composition according to claim 1 in a pharmaceutically acceptable sterile vehicle.
- (Original) A diagnostic composition comprising a peptide or mixture of peptides according to claim 1, wherein said peptide or peptides are conjugated to a detectable label.
- 14. (Original) A composition according to claim 13, wherein said detectable label is a fluorescent moiety or a radioactive label.
- 15. (Withdrawn) A method of diagnosing the presence of colon tumor cells in a patient comprising the steps of administering to said patient an effective amount of a diagnostic composition according to claim 13, allowing said diagnostic composition to bind to colon tumor cells, and detecting binding of said composition to said colon tumor cells.
- 16. (Withdrawn) A method of diagnosing the presence of colon tumor cells in a patient comprising the steps of contacting a sample of colon cells obtained from said patient with a diagnostic composition according to claim 13, and detecting binding of said composition to colon tumor cells.

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- 17. (Withdrawn) The method according to claim 16, wherein said method is non-invasive.
- 18. (Withdrawn) The method according to claim 17, wherein said sample of colon cells is obtained from fecal material.
- (Original) A composition comprising one or more peptides according to claim 1, wherein each of said peptides is conjugated to a therapeutic agent.
- (Original) The composition according to claim 19, wherein said therapeutic agent is a
 cytotoxic agent.
- (Withdrawn) A method of treating a patient suffering from colon cancer, comprising administering to said patient a composition according to claim 19.
- 22. (Withdrawn) A method for treating a patient suffering from a colon-derived cancer, comprising administering to said patient a composition according to claim 19.
- 23. (Withdrawn) A method for blocking a receptor on a colon tumor cell or a colon tumor-derived cell in a patient containing said colon tumor or said colon tumor-derived cells, comprising the steps of administering to said patient a composition according to claim 19, and allowing the peptide or peptides in said composition to selectively or specifically bind to said receptor.
- 24. (Withdrawn) A method of identifying a homing molecule that homes to a marker on a colon tumor cell, comprising the steps of contacting in vitro a substantially purified population of a tumor cell line with one or more peptide molecules, and observing the specific or selective binding of a molecule to the tumor cell compared to a non-tumor colon cell, wherein the presence of specific binding identifies the peptide molecule as a homing molecule that homes to said colon tumor cell.
- 25. (Previously Presented) A purified polypeptide represented by the formula: A-cys-X1-X2-X3-X4-arg-pro-met-cys-B (SEQ ID NO: 139), wherein X1-X4 each are an amino acid, and wherein A and B are absent or are amino acids or peptides containing up to 6 amino acids.

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